

SEARCH REQUEST FORM

34

Scientific and Technical Information Center

Requester's Full Name: JERRY ANDERSON Examiner #: 59061 Date: 20 OCT 02
 Art Unit: 3637 Phone Number 308 2202 Serial Number: 10060126
 Mail Box and Bldg/Room Location: 6006 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Computer in a desk
 Inventors (please provide full names): Craig Tyring

Earliest Priority Filing Date: 2/18/2000

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Pat. # 5,286,440

LITIGATION SEARCH

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Query/Command : PRT SS 3 MAX 1 LEGALALL

1 / 1 PLUSPAT - ©QUESTEL-ORBIT

Patent Number :

US6286440 B1 20010911 [US6286440]

Title :

(B1) Computer in a desk

Inventor(s) :

(B1) JYRINGI CRAIG (US)

Application Nbr :

US50688300 20000218 [2000US-0506883]

Priority Details :

US50688300 20000218 [2000US-0506883]

Intl Patent Class :

(B1) A47B-037/00

EPO ECLA Class :

A47B-021/00

US Patent Class :

ORIGINAL (O) : 108050010; CROSS-REFERENCE (X) : 108009000 312223300

Document Type :

Basic

Citations :

US4735467; US5452950; US5896817; US5957059; US6022087; US6059385;
US6092883

Publication Stage :

(B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001

Abstract :

A school, home or commercial desk that can be used for traditional tasks and yet provides readily available access to computer equipment. The computer in a desk (10) is comprised of a desk body (24) that houses the internal components of a standard computer; a desk top (12) that houses the flat panel screen (18) beneath a view panel (20) that is mounted flush with the surface of the desk top (12); a keyboard tray (14) that holds the standard computer keyboard; and a support system of four adjustable

legs (42). The desk top (12), keyboard tray (14), and legs (42) are all adjustable to suit the users specific ergonomic needs. The desk body (24) consists of a front panel (28), back panel (30), right side panel (32), and left side panel (34), bottom panel (36), and top panel (38) that give the computer in a desk (10) its shape, support and access to available, installed computer components. Furthermore, the computer in a desk (10) can be used for traditional and computer related tasks regardless of the user adjusted.

Update Code :

2001-38

1 / 1 LGST - ©LEGSTAT

Patent Number :

US 6286440 [US6286440]

Application Details :

US 506883/00 20000218 [2000US-0506883]

Document Type :

US-P

Action Taken :

20000218 US/AE-A
APPLICATION DATA (PATENT)
US 506883/00 20000218 [2000US-0506883]

20010911 US/BA
PATENT (NO PREVIOUS PRE-GRANT PUBLICATION)

20020528 US/RF
REISSUE APPLICATION FILED
20020129

Update Code :

2002-24

1 / 1 CRXX - ©CLAIMS/RRX

Patent Number :

6,286,440 A 20010911 [US6286440]

Patent Assignee :

Jyringi, Craig

Actions :

20020129 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20020528

REISSUE REQUEST NUMBER: 10/060126
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3636

Reissue Patent Number:

1 / 1 PAST - ©Thomson Derwent

Accession Number :

200222-001922

Patent Number :

6286440 A [US6286440]

Official Gazette Date :

2002-05-28

Actions :

REISSUE APPLICATION FILED

Query/Command : ..st

/39/1

DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat
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Basic Patent (No,Kind,Date): US 6286440 BA 20010911 <No. of Patents: 001>

Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date
US 6286440	BA	20010911	US 506883	A	20000218 (BASIC)

Priority Data (No,Kind,Date):

US 506883 A 20000218

PATENT FAMILY:

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 6286440 BA 20010911

COMPUTER IN A DESK (English)

Patent Assignee: JYRINGI CRAIG (US)

Author (Inventor): JYRINGI CRAIG (US)

Priority (No,Kind,Date): US 506883 A 20000218

Applic (No,Kind,Date): US 506883 A 20000218

National Class: * 108050010; 108009000; 312223300

IPC: * A47B-037/00

Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 6286440	P	20000218	US AE	APPLICATION DATA (PATENT)
				(APPL. DATA (PATENT))
			US 506883 A	20000218
US 6286440	P	20010911	US BA	PATENT (NO PREVIOUS
				PRE-GRANT PUBLICATION)
US 6286440	P	20020528	US RF	REISSUE APPLICATION FILED
				(REISSUE APPL. FILED)
				20020129

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-----PATENTS GROUP FILES-----

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-----U.S. PATENTS-----
UTIL 4 Full Text Patents from 1836
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PLANT 4 Full Text Patents from 1931
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Journals, News

* Selected coverage 1/15/71 to 12/3/74

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6286440

<=1> Get Drawing Sheet 1 of 7

September 11, 2001

Computer in a desk

REISSUE: January 29, 2002 - Reissue Application filed Ex. Gp.: 3636; Re. S.N.
10/060,126May 28, 2002

APPL-NO: 09506883 (09)

FILED-DATE: February 18, 2000

GRANTED-DATE: September 11, 2001

CORE TERMS: desk, computer, panel, user, keyboard, tray, computer system,
adjustable, classroom, monitor ...

6,286,440 OR 6286440

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6,286,440 OR 6286440

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SUNDAY TELEGRAM

December 16, 2001 Sunday, ALL EDITIONS

SECTION: NEWS; Pg. A1

LENGTH: 1091 words

HEADLINE: Teacher patents first desk computer;
Invention a hit at Spencer school

BYLINE: Bradford L. Miner; TELEGRAM & GAZETTE STAFF

DATELINE: SPENCER

BODY:

... Knox Trail Junior High School.

And because no one else has had the same idea, Mr. Jyringi was awarded U.S.
Patent 6,286,440 B1 on Sept. 11.

LEVEL 1 - 1 OF 1 STORY

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HEADLINE: Teacher patents first desk computer;
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BYLINE: Bradford L. Miner; TELEGRAM & GAZETTE STAFF

DATELINE: SPENCER

BODY:

- Imagine a standard-sized classroom desk that doubles as a state-of-the-art computer.

Craig S. Jyringi, science and computer teacher at David Prouty High School, not only imagined it -- he built one in his Leicester home and has tested it the past three weeks in the computer lab at Knox Trail Junior High School.

And because no one else has had the same idea, Mr. Jyringi was awarded U.S. Patent 6,286,440 B1 on Sept. 11.

No one will ever forget that date, but for me it was particularly bittersweet," Mr. Jyringi said, demonstrating the SmarteDesk, which one day may be commonplace in school classrooms.

As a student desk, the SmarteDesk was designed to accommodate first-graders, high school seniors and all sizes in between.

The desk's acrylic top provides a smooth surface on which to write. Flip up the top and inside you will find a 1 GHz Intel Pentium or AMD processor, a high-resolution 13-inch LCD monitor, a 30-gigabyte hard drive, a high-speed CD-ROM drive, a floppy drive, 256 megabytes of RAM, a sound card with speakers or headphones, a wireless network adapter, a retractable keyboard and a mouse.

Computers are wonderful things, but they're not classroom-friendly. That's what got me started on this project," Mr. Jyringi said.

You can't put computers in your average-sized classroom and have the same number of students. You either have to decrease the number of students or jam desks and computer stations together. Both of those options are unsatisfactory in today's fiscally tight educational climate," he said.

With the SmarteDesk, Mr. Jyringi said, it's a one-for-one swap, with the advantage of having both the space and a powerful computer that can access

information from a local database or from the Internet.''

As for wiring classrooms to accommodate the SmarteDesk, Mr. Jyringi said it would be no more complicated than the wiring required for typewriters in business classrooms decades ago.

Replacing traditional desks with SmarteDesks solves not only the space problem, but addresses what Mr. Jyringi calls the paper issue.''

A teacher gives the class a quiz and hands out to students two dozen or so pieces of paper. The quiz is collected and corrected. Grades are entered into a grade book. The quiz is handed back, and, in most instances, that quiz paper ends up in the wastebasket,' ' Mr. Jyringi said.

Multiply that one instance by the number of tests and quizzes each year in each classroom, and multiply that by the number of classrooms in a school, and you can picture the number of trees that are being cut down to maintain the educational process.''

A proponent of the electronic classroom, Mr. Jyringi said the SmarteDesk comes preloaded with a Windows or Linux operating system and educational software that he developed himself.

TestMaker, Mr. Jyringi said, is an easy-to-use program to create quizzes and tests. TestTaker is a program that allows students to take quizzes or tests at the SmarteDesk. TestCorrector allows the teacher to correct TestTaker tests quickly and transfer the results to the teacher's electronic grade book. LessonPlanner creates and prints teacher lesson plans.

Mr. Jyringi said the idea of a computer-in-a-desk first came to him about a decade ago.

It just wasn't possible then because computer parts were too big to fit inside the average student desk,' ' he said.

Four years ago he bought a standard, flip-top student desk, took the top off and started to experiment with different computer configurations.

It worked. I found I could get all of the components I needed inside a standard student desk. Even then, it took about a year of tinkering before I was satisfied with the initial design,' ' Mr. Jyringi said.

The biggest challenge in building the prototype was cost, he said.

Flat-panel LCD monitors at that time were very expensive. What I paid for an LCD display then, I could build a complete SmarteDesk from scratch today. The price of the LCD panel has dropped \$500 in the past couple of years, and that puts the SmarteDesk in the \$800 to \$850 range,' ' he said.

The first version of the SmarteDesk was field tested for two weeks in David R. McNeaney's computer classroom at Knox Trail Junior High.

The reaction was overwhelming,' ' Mr. McNeaney recalls.

SUNDAY TELEGRAM December 16, 2001 Sunday,

Teachers and students alike fell in love with it. Really cool! I want one! Where can I buy one?' were just a few of the comments,' Mr. McNeaney said.

With the feedback from students and teachers, we went back to the drawing board and improved on what we had,' Mr. Jyringi said. He added that the patented version of the SmarteDesk is being tested at Knox Trail.

He said if the desk's components break or become outmoded they can be replaced or upgraded easily.

Mr. Jyringi said that, since the desk's first public exposure, he's been waiting for someone to point out the downside of the SmarteDesk.

I'm still waiting,' he said.

Calling himself a tinkerer, Mr. Jyringi said if it had been up to him, the SmarteDesk would never have been patented.

I approached the Patent Office ... and completely gave up,' he said. I like to play with parts and build things. I'm not into paperwork. So at that point, I turned to Dave and invited him to become a partner if he would tackle the patent application.'

Mr. McNeaney agreed to give it a try.'

He said he and the Smart- eDesk spent about three to four months together. When the patent application was complete, it was accepted without question or comment, something that surprised both men.

I still can't believe that someone else didn't come up with this idea first,' Mr. Jyringi said. I was sure that when we did the patent search and a search for similar items, that something would turn up, but there was nothing out there.'

While there is only the single SmarteDesk prototype today, Mr. Jyringi said he plans to build two more: one for Mr. McNeaney and the other for Matthew Bolduc.

Mr. Bolduc, technology director for the Spencer-East Brookfield Regional School District, is the third business partner in the SmarteDesk project, Mr. Jyringi said.

Right now we have the name SmarteDesk; we have a Web site -- www.smartedesk.com -- and we have a few people who've expressed some interest in this, but that's about it,' Mr. Jyringi said.

But even if the SmarteDesk has financial success, it will not prompt early retirement for Mr. Jyringi.

No way. I'm a classroom teacher at heart. That's what I enjoy the most and that's where I belong,' he said.

GRAPHIC: PHOTOS; T&G Staff/DAN GOULD ; (1) Craig S. Jyringi, right, a teacher at David Prouty High School, and Matthew Bolduc, technology director for the

SUNDAY TELEGRAM December 16, 2001 Sunday,

Spencer-East Brookfield Regional School District, view some of the components of the SmarteDesk. (2) Partners in the SmarteDesk project, from left, David R. McNeaney, inventor Craig S. Jyringi and Matthew Bolduc talk with Sarah Dufault, a seventh-grader at Knox Trail Junior High School in Spencer, who is using the new computer desk. At right, a Knox Trail student works at the new SmarteDesk.

LOAD-DATE: December 21, 2001